

ABSTRACT OF THE DISCLOSURE

A mobile communications network includes a plurality of cells and cell sectors in each cell. Carrier frequencies for carrying beacon control signaling, such as a broadcast control channel (BCCH), are assigned from the entire band of available carrier frequencies. The same carrier frequencies are assigned to carry traffic channels. This arrangement enables the use of one carrier frequency to communication beacon control signaling in one cell segment, while also allowing the use of the same one carrier frequency to communicate bearer traffic in another cell segment, thus affording substantial increases in network capacity that has heretofore not been possible in networks in the absence of significant infrastructure buildout or modification.

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